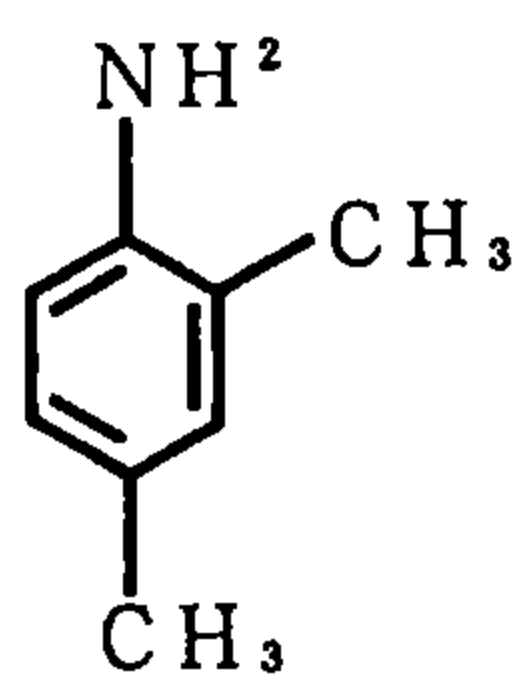


2,4-Dimethylaniline (2,4-ジメチルアニリン)

Chemical Name:	2,4-Dimethylaniline
Synonym	2,4-Xylidine
	Benzenamine, 2,4-dimethyl-
Molecular weight:	121.18
Melting point:	°C
Boiling point:	216°C
Chemical Structure	
CAS No :	95-68-1
MITI No :	(3)-129
Source of Substance:	Wako Pure Chemical Ind., Ltd.
Lot.No.:	CTQ5179
Purity:	%
Vehicle:	DMSO

Judgement for Chromosomal Aberration in CHL: Positive

IARC Evaluation : not yet cited

Experimental Data

	Treated Time (Hr)	Concentration (mg/ml)	No. of Meta-phase	Poly-ploid (%)	Judge	Cell with Structural Chromosome Aberration (%)						Judge	
						Gap	CTB	CTE	CSB	CSE	Total		
											-G		+G
DMSO	24		200	1.0	—	0	0.5	0	0	0	0.5	0.5	—
	48		200	1.0	—	0.5	0.5	0	0	0	0.5	1.0	—
Test Chemical													
	24	0.13	200	1.0	—	0.5	0.5	0	0	0	0.5	1.0	—
		0.25	200	1.0	—	0.5	1.5	1.5	0	0	3.0	3.5	—
		0.5	200	1.0	—	0.5	1.5	2.5	0	0	3.5	4.0	—
		1.0				No observation for metaphase							
		1.5				No observation for metaphase							
	48	0.13	200	1.0	—	1.0	0.5	0.5	0	0	1.0	2.0	—
		0.25	200	0.5	—	0.5	1.0	3.5	0.5	0	4.5	5.0	±
		0.5	200	0.5	—	2.5	7.0	13.5	0.5	0	17.5	18.0	+
		1.0				No observation for metaphase							
		1.5				No observation for metaphase							
Positive Control (MMC)	24	0.00005	200	1.5	—	2.0	4.5	26.5	0	0	28.0	29.5	+
	48	0.00005	200	2.0	—	1.5	8.0	27.0	1.5	0	32.0	33.0	+

Experimental Data

S 9 with or without	Concent- ration (mg/ml)	No. of Meta- phase	Poly- ploid (%)	Judge	Cell with Structural Chromosome Aberration (%)								
					Gap	CTB	CTE	CSB	CSE	Total		Judge	
										-G	+G		
DMSO	-	200	2.0	-	0.5	0.5	0.5	0.5	0	1.5	2.0	-	
	+	200	1.5	-	1.0	0.5	0.5	0	0	1.0	2.0	-	
Test Chemical													
-	0.013	200	1.5	-	0.5	0	0.5	0	0	0.5	1.0	-	
	0.025	200	0.5	-	0.5	0	0	0	0	0	0.5	-	
	0.05	200	0.5	-	0.5	0	1.0	0	0	1.0	1.5	-	
	0.1	200	0.5	-	0	0.5	0	0	0	0.5	0.5	-	
	0.2	200	0.5	-	0	0.5	1.0	0	0	1.5	1.5	-	
	+	0.013	200	5.0	±	0.5	0	3.5	0	0	3.5	4.0	-
		0.025	200	5.5	±	1.0	2.0	10.5	0	0	11.5	12.5	+
		0.05	200	13.0	+	2.0	5.5	20.5	0	0.5	23.0	23.5	+
		0.1	200	8.0	±	3.5	11.0	30.0	0.5	0	34.0	35.0	+
		0.2	200	4.5	-	8.0	22.0	50.5	0	0	53.5	55.0	+
Positive Control													
(B(a)P)	-	200	0.5	-	1.0	0	0	0	0	0	1.0	-	
	+	200	0.5	-	5.0	7.5	47.5	0	0	49.0	50.0	+	